

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A fluid dispenser device including a fluid dispenser member (10) such as a pump or a valve, and a dispenser head (20) provided with a dispensing orifice, said fluid dispenser device being provided with dispensing detector means (30, 31) for detecting dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for informing the user that a dose of fluid has indeed been dispensed by said pump, said detector means comprising a detector (30) for detecting the fluid going from said dispenser member to said dispenser orifice, said fluid dispenser device being characterized in that said detector (30) comprises a piezoelectric material.
2. (original): A device according to claim 1, in which the dispenser member (10) is connected to the dispensing orifice (40) via an expulsion channel (50), said detector means (30, 31) being provided in said expulsion channel (50).
3. (currently amended): A device according to claim 1 ~~or claim 2~~, in which said detector (30) is a dynamic pressure detector.
4. (currently amended): A device according to claim 1 ~~any preceding claim~~, in which said detector (30) comprises polyvinylidene fluoride (PVDF).

5. (currently amended): A device according to claim 1~~any preceding claim~~, in which said detector (30) comprises a PVDF tube operating in breathing mode.

6. (currently amended): A device according to claim 2~~claims 2 and 5~~, in which said PVDF tube is disposed around a portion of said expulsion channel (50).

7. (original): A fluid dispenser device including a fluid dispenser member (10) such as a pump or a valve, and a dispenser head (20) provided with a dispensing orifice, said fluid dispenser device being provided with dispensing detector means (30, 31) for detecting dispensing of a dose of fluid, said detector means (30, 31) being adapted to deliver a signal for informing the user that a dose of fluid has indeed been dispensed by said pump, said detector means comprising a detector (30) for detecting the fluid going from said dispenser member to said dispenser orifice, said fluid dispenser device being characterized in that said detector (30) comprises an optical fiber (30).

8. (original): A device according to claim 7, in which the dispenser member (10) is connected to the dispensing orifice (40) via an expulsion channel (50), said detector means (30, 31) being provided in said expulsion channel (50).

9. (currently amended): A device according to claim 7~~or claim 8~~, in which said optical fiber (30) is associated with a deformable membrane (31) which deforms when fluid passes through it, such deformation generating stress in the optical fiber (30).

10. (original): A device according to claim 9, in which said deformable membrane (31) is disposed around a portion of said expulsion channel (50).

11. (currently amended): A device according to claim 9 ~~or claim 10~~, in which said optical fiber (30) co-operates with said deformable membrane (31) in a casing (45) secured to the dispenser head (20).

12. (currently amended): A device according to claim 7 ~~any one of claims 7 to 11~~, in which said optical fiber (30) is made of plastic or of glass.

13. (currently amended): A device according to claim 1 ~~any preceding claim~~, in which said detector means (30, 31) are disposed in a sleeve (40) co-operating at one end with said dispenser member (10) and at the other end with said dispenser head (20).

14. (original): A device according to claim 13, in which said sleeve (40) is made up of two portions (41, 42) engaged one on and/or around the other, said detector means (30, 31) being disposed between said two sleeve portions (41, 42).

15. (currently amended): A device according to claim 13 ~~or claim 14~~, in which said sleeve (40) is engaged around the valve member of the valve, or around the actuating rod of the pump.

16. (currently amended): A device according to claim 1~~any preceding claim~~, in which said detector means (30, 31) are connected to electronic means (60) for processing the signals delivered by said detector means (30, 31).

17. (currently amended): A device according to claim 1~~any preceding claim~~, in which said detector means (30, 31) are adapted to increment or to decrement a dose counter.

18. (currently amended): A device according to claim 1~~any preceding claim~~, in which said dispenser member is a pump (10) adapted to dispensing the fluid such that it is so finely sprayed that the spray is undetectable by the user, said detector means (30) informing the user every time a dose of fluid is dispensed.

19. (currently amended): A device according to claim 1~~any one of claims 1 to 17~~, in which said dispenser member is a metering valve (10) operating with a propellant gas.